

Facility: AltEn, LLC
 IIS: 84069
 PCS: NE0137634

Dan DeJong
 10/20/2021

Facility Site Inspection Report

Weather conditions: Overcast

Temperature: 57° F

Wind: South 15 mph WNW

Precipitation: 0.0"

Storm Water Berms and areas of concern (the numbers below match the attached map)

Location	Inspected		Area Description	
	Yes	No		
1. Northeast side of the administration building	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Berm removed</i>	
2. Southwest side of the south lagoon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
3. West side of the northwest lagoon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
4. North side of the north wet cake pile	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Does not accumulate runoff</i>	
5. County Road 10 (Hoop building)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
6. East wet cake pile (wet cake now removed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
7. Berm northeast of hoop buildings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>

Comments:

- Clean Harbors continues to transport the clay base from the tank farm to the east storage area for the capping process. The haul road is sprayed down periodically to control dust.
- Poseidon tanks 4, 7, & 10 remain erected onsite.
- The cooling tower continues to discharge overland through the ethanol plant to the ditch south of AltEn.
- Clean Harbors continues to work on removing material from the emergency lagoon.
- The south hoop barn has not been repaired and both buildings have unrestricted access.
- The Biochar unit is being dismantled. The silt fence surrounding the Biochar is down.

Lagoons:

- Northeast lagoon
 - Large whales present with much of the liner on the surface. The northeast corner of the liner has a section of wastewater collecting in the corner behind the largest whale.
- Northwest lagoon
 - No change in liner condition or lagoon water was observed. 4 whales are present and thick green sludge is accumulating along the west side and northwest corner.
- South lagoon
 - No change in liner condition or lagoon water.

Site Activity Summary and Inspection Description:



NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY

NDEE conducts site visits at AltEn three days a week to assess compliance with NPDES permit requirements with the facility's Wastewater permit and the Industrial Storm Water General Permit.

- The AltEn Facility Response Group (AFRG) is treating wastewater as part of its interim remediation efforts at the AltEn site. The current treatment process for wastewater at the AltEn facility utilizes existing wastewater treatment infrastructure at the AltEn facility, as well as portable wastewater treatment units that were brought on-site by Clean Harbors. The raw wastewater is pumped through AltEn's existing wastewater treatment system first, and then is treated by Clean Harbors' system. The Clean Harbors Poseidon tanks are used for raw water storage and treated water storage in which the contents may show varying appearances depending upon the stage of treatment such as sludge accumulation and color changes. During site visits inspectors monitor and document the status and any changes in the facility waste and wastewater activities. Inspectors may also observe or conduct specific activities such as sampling.
- The storm water management for the facility incorporates Best Management Practices (BMP's) to manage unpermitted discharges. The facility has several berms around specific areas that contain any runoff from the wet distillers' grains (wetcake) from leaving the site. The facility also utilizes a ditch north of the hoop buildings located behind the berm to provide drainage for most of the south side and retention of runoff in the southwest corner of this area. In all areas that the wetcake is stored, there is a system of berms in place to ensure contaminated runoff and material does not leave the site. There are several areas where runoff from the wetcake collects or pools inside the containment and must be pumped out and then transferred to the onsite wastewater treatment system. During the NDEE site visits, the primary focus is to document the status of the bermed areas, and that contaminated runoff is properly managed. Inspectors document areas that require corrective actions to be initiated such as berm repair or ponding of contaminated runoff seeping through a containment area. Any necessary corrective actions requested are reported to the facility contact and NDEE management for review.
- Facility safety requirements consist of NDEE inspectors to don personal protective equipment (PPE) including hard hats, steel-toed boots, safety vest, and safety glasses. Safety concerns encompass several hazards which include:
 - trip hazards around areas piping is laying on the ground
 - tall vegetation obscuring view of the ground or equipment
 - slick surfaces around the lagoons, treatment and lagoon areas, wet/muddy areas
 - potential exposure to hazardous material in or near plant operation area, wastewater treatment area, and lagoon area

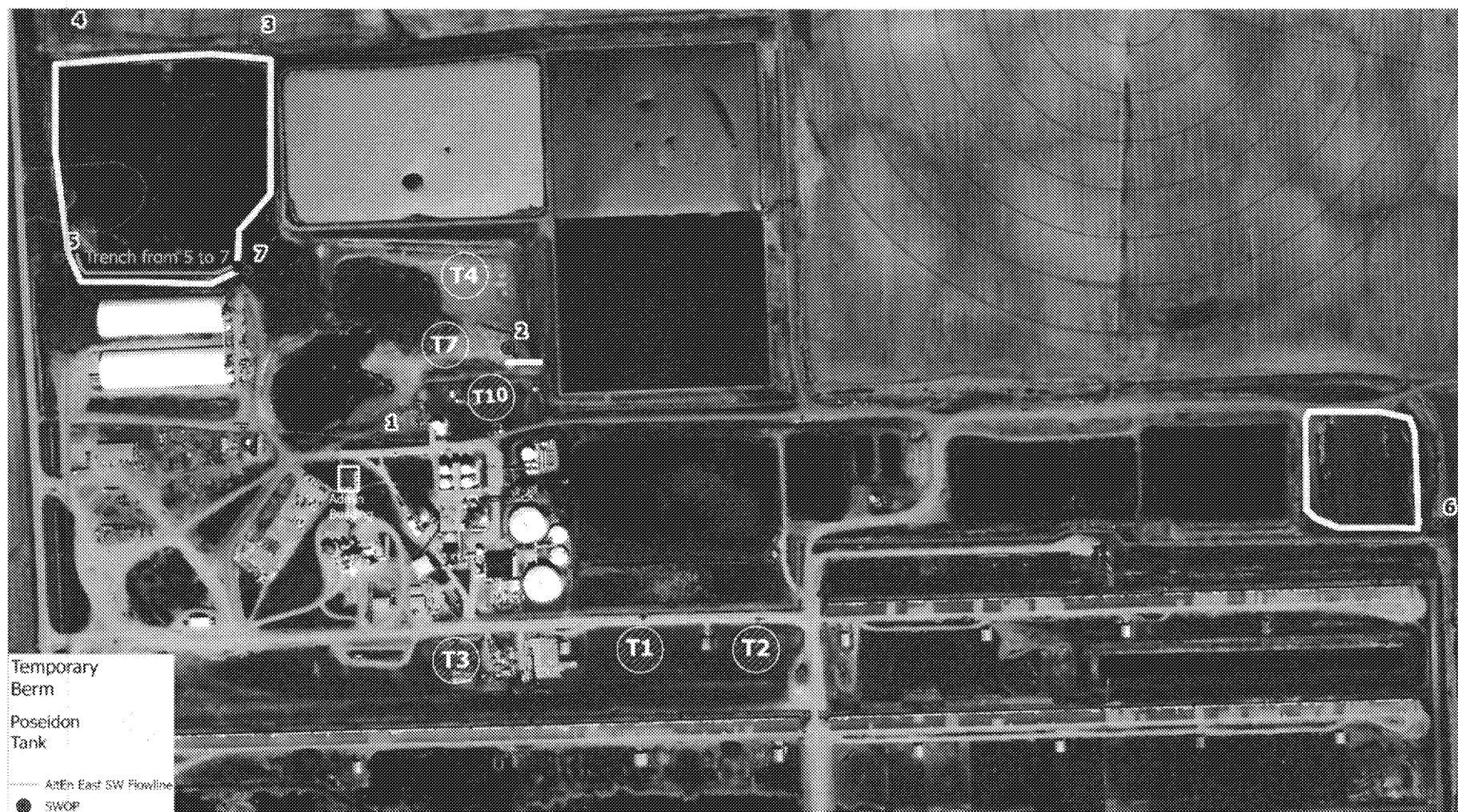
Applicable Permit and Regulations:

- Nebraska NPDES General Industrial Stormwater Permit NER910000 (*Authorization NER910444*)
- Nebraska Title 119 chapter 10
- Nebraska Title 123 chapter 11

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY

AltEn LLC - Storm Water Temporary BMP Check Map



Temporary
Berm

Poseidon
Tank

AltEn East SW Flowline

SWOP

Address: 11344 County Road 10, Mead NE
NDEQ ID: 84069
Program ID: NE0137634

500 250 0 500 1,000 1,500 2,000 Feet

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY
JW - October 2021

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 1

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Culverts north of CR 9 & J

Direction Facing: North

Description: The photo shows the culverts on the west side of CR 9. The emergency inflatable pipe plugs visible in the photo are set in each culvert to be deployed (inflated) in the event of a spill at the AltEn facility. If inflated, the plugs will prevent wastewater from flowing downstream which is part of Clean Harbors Emergency Response Plan. Water is still very cloudy.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 2

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: West side of tank field

Direction Facing: East

Description: Clean Harbors continues to remove soil down to the geomembrane in preparation for the new lagoon. The soil is then being transported to the former east wetcake pile location.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 3

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: East side of the south hoop building.

Direction Facing: NW

Description: The south hoop building is still not secured from unauthorized entry on both sides and the roof has not yet been repaired.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 4

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: South side of south hoop building

Direction Facing: Northwest

Description: Clean Harbors is temporarily storing geomembrane removed from the tank field south of the south hoop building. Also, the roof on the south hoop building has not yet been repaired.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 5

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NEO137634

Location: North side north hoop building/south of northwest wetcake storage area.

Direction Facing: East

Description: The photo the newly erected berm and trench that are closer to the north hoop building.
This was to allow for extra space in the wetcake storage area.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 6

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

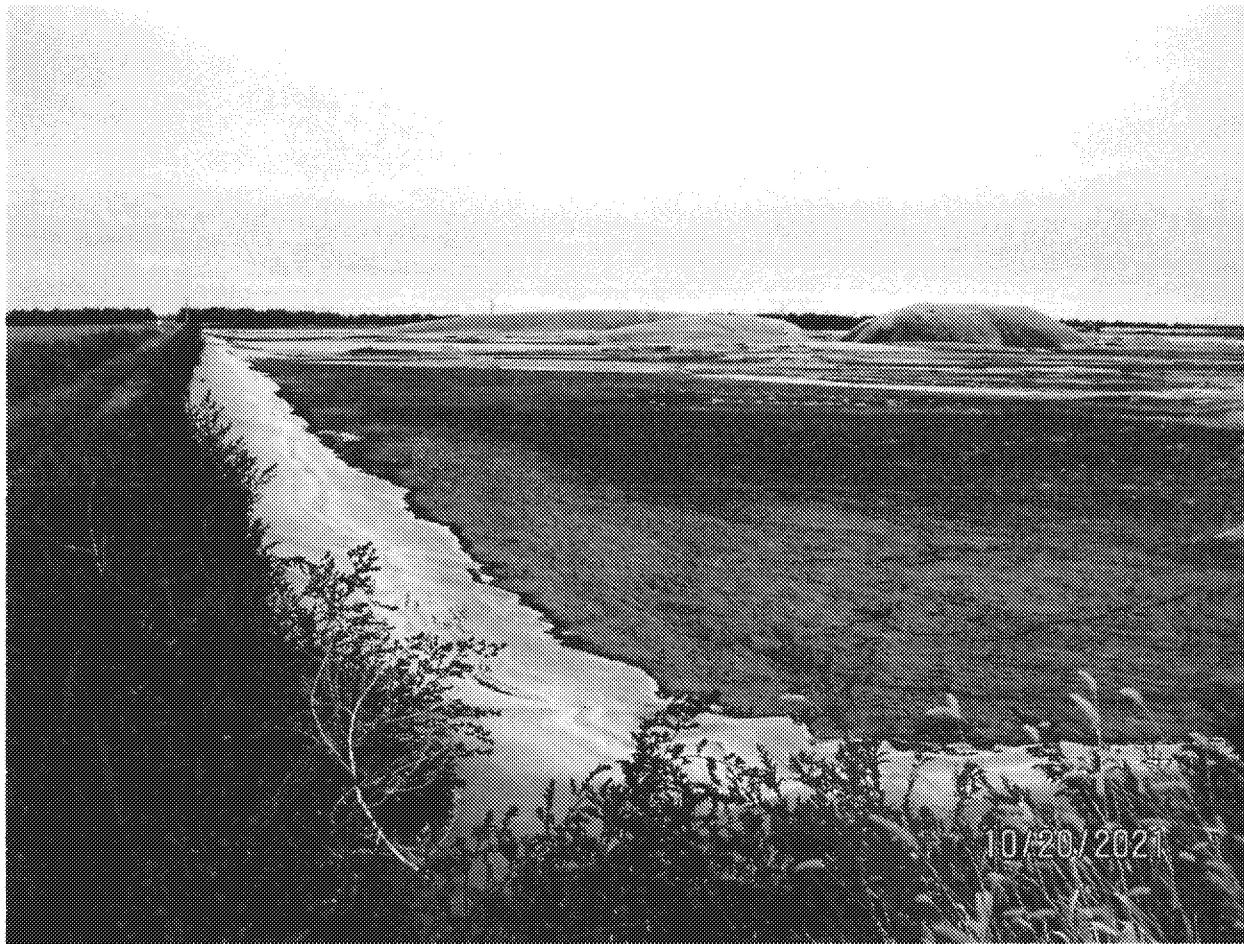
Location: Northwest corner of northeast lagoon

Direction Facing: South

Description: The photo one of the larger whales along the west edge of the northeast lagoon. Much of the liner was exposed or only appeared to be submerged under a few inches of wastewater and sludge.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 7

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Northeast corner of northwest lagoon

Direction Facing: East

Description: The photo shows the large whales on the east side of the northeast lagoon. Much of the liner was exposed or only appeared to be submerged under a few inches of wastewater and sludge.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 8

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

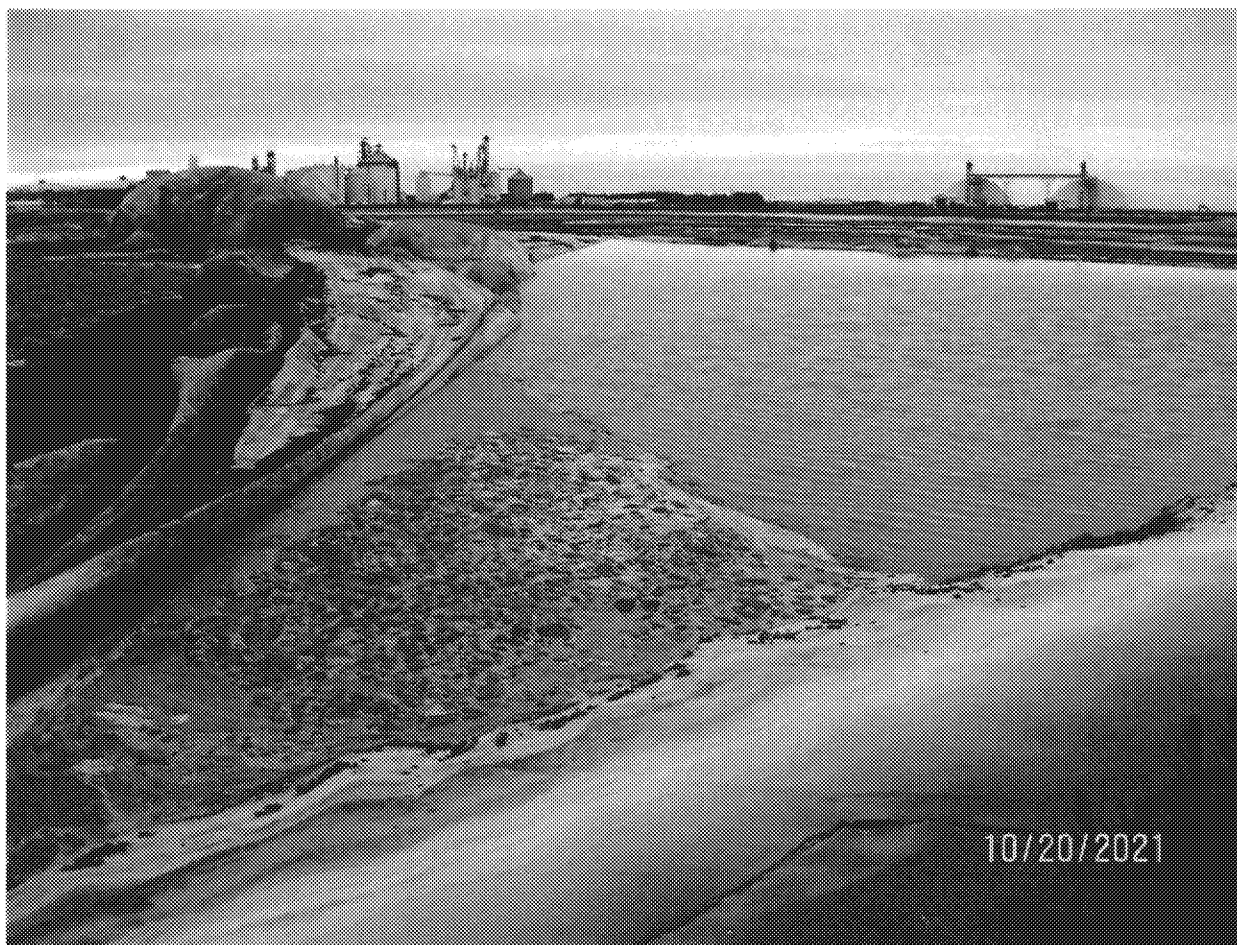
Location: North bank of northeast lagoon

Direction Facing: South

Description: The photo shows part of the liner edge appears to have become detached. The wastewater appears much deeper to the left of the folded edge and only inches deep with a layer of sludge to the right.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 9

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: North edge of northeast lagoon.

Direction Facing: South

Description: The photo shows part of the liner bunched up on the left side with deep wastewater on the right side of the photograph.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 10

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Northeast corner of the northeast lagoon.

Direction Facing: East

Description: The photo shows a section of wastewater that has been separated from the main body of water by the nearby growing whale.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 11

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Northeast corner of northeast lagoon

Direction Facing: Southeast

Description: The photo shows the large whale that has cut off a large area of wastewater from the main body. Much of the liner is exposed and appears to be floating.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 12

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Emergency lagoon

Direction Facing: East

Description: The photo shows the progress made in clearing out the emergency lagoon to repair the liner. Clean Harbors is using power pellets to absorb moisture which is then transferred to the wetcake storage area.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 13

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Biochar unit

Direction Facing: Southwest

Description: The photo shows the remaining components of the Biochar unit. It is currently being dismantled to be removed from the site. The silt fence surrounding the Biochar unit has been taken down during this process.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 14

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

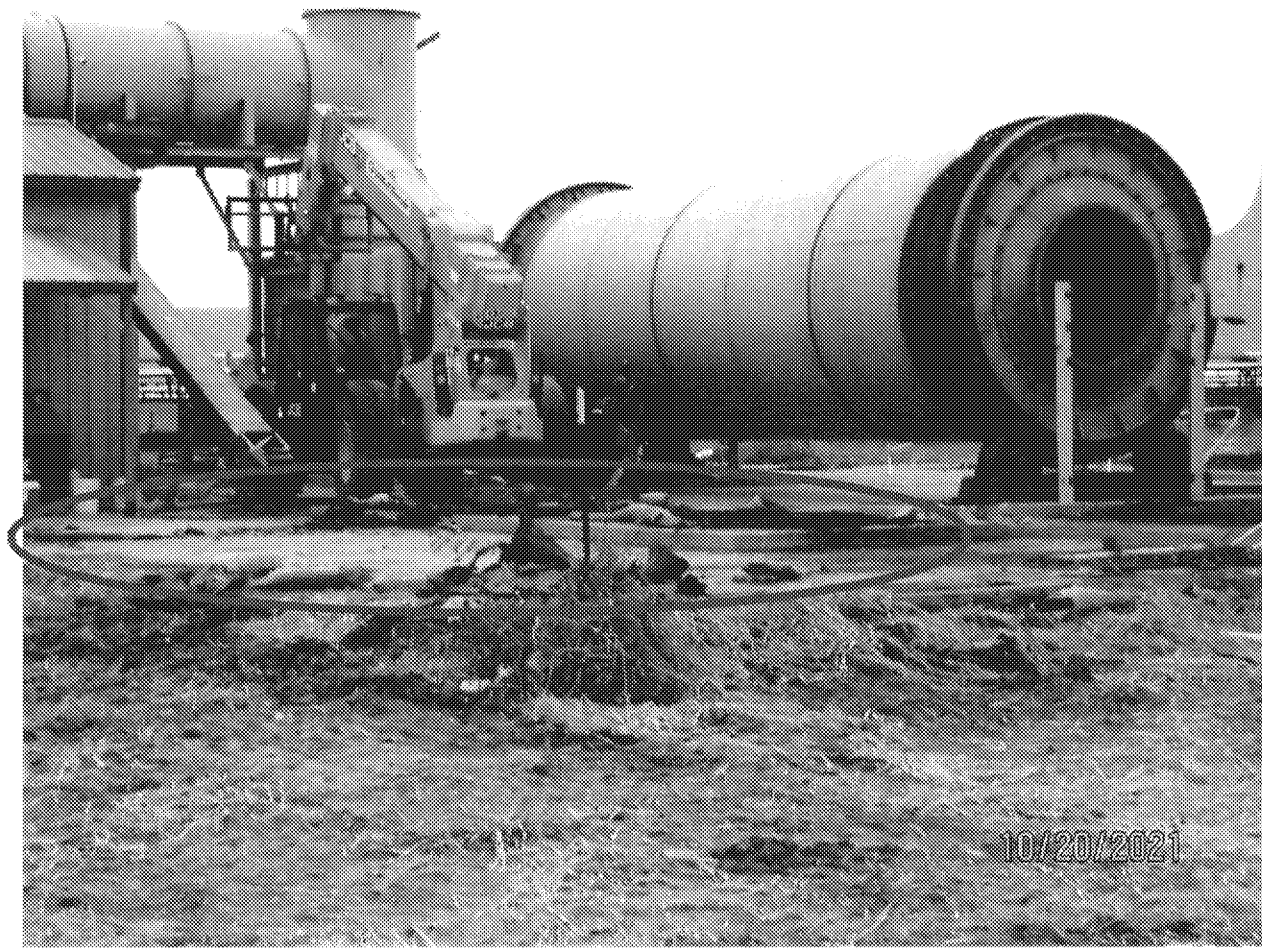
Location: Biochar Unit

Direction Facing: South

Description: The photo shows biochar on the pavement of the biochar unit. The equipment removal team has been driving equipment through the area and the containment fence has been taken down for the removal process.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 15

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Biochar Unit

Direction Facing: South

Description: The photo shows a crew removing components of the biochar unit. The containment fence has been taken down and the removal crew is driving through biochar on the ground.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY



Photos: 16

Site Visit Report

Date Taken: 10-20-2021

Photographer: Dan DeJong

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Culvert A

Direction Facing: Southeast

Description: The photo shows Culvert A near the former east wetcake storage area. The water in the culvert appeared very cloudy. The culvert still has an inflatable plug installed by Clean Harbors in the event of a discharge from the AltEn facility.

NEBRASKA

DEPT. OF ENVIRONMENT AND ENERGY

COPY OF SIGNED EXIT SUMMARY FORM REVIEWED FROM TO SCOTT TINGELHOFF:

NEBRASKA

Good Life. Great Resources.

DEPT. OF ENVIRONMENT AND ENERGY

Inspection and Assistance Exit Summary

NDEE ID: 31069 NDEE Program & ID: NE0137634/NE0510443 NDEE Notification #: _____

Inspection/Other: yes Compliance Assistance Visit (CAV) no Permit Assistance Visit (PAV) no

Facility/Operation Name: AltEn, LLC

Address: 1344 CR 10

City/Town: Mead County: Saunder

Owner/Occupant/Operator Inspection Contact (S): Scott Tingelhoff

Inspection Date: 10/20/2021 Start Time: 11:30 End time: 12:30

Inspector: Dan DeJong Phone #: 402-471-0291 Email Address: dan.dejong@nebraska.gov

Concerns observed: Yes

Further Agency discussion needed to determine compliance: none

Comments:

Location	Inspected		Area Description	
	Yes	No		
1. Northeast side of the administration building	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Berm removed	
2. Southwest side of the south lagoon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
3. West side of the northwest lagoon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
4. North side of the north wet cake pile	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does not accumulate runoff	
5. County Road 10 (Hoop building)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
6. East wet cake pile	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>
7. Berm northeast of hoop buildings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	pumped <input checked="" type="checkbox"/>	not pumped <input type="checkbox"/>

Actions to be performed immediately or as soon as reasonably practical: yes

- Address whistles/tears in northeast lagoon liner.
- Replace stormwater containment surrounding the biochar area.
- Address potential track out of biochar residue during dismantling of equipment.
- Repair and secure south hoop building.
- Continue dust suppression on haul roads.

Please notify the inspection when the above actions are completed.

The Department will provide the final inspection report within an agency average of 14 days of the inspection date. The final inspection report will contain a complete list of any alleged violations. This inspection exit summary does not preclude any other legal action by the Nebraska Department of Environment and Energy and your prompt attention of the documented concerns will be considered in assessment of your voluntary compliance the summary was left with: Scott Tingelhoff. Please contact your inspector if you have any questions concerning this inspection and assistance exit summary.

Signing this document is not an admission of liability by the facility

☒ Responsible Signature

X Scott Tingelhoff

Dan DeJong

Inspector

Signed by: dan.dejong@nebraska.gov

Inspection Contact Signature: Scott Tingelhoff